ER-2 #809 09/06/13 - 09/07/13

Aircraft: ER-2 - AFRC #809 (See full schedule)
Flight Number: 13-9062
Payload Configuration: SEAC4RS
Nav Data Collected: Yes
Total Flight Time: 8 hours
Submitted by: Chris Miller on 09/09/13
Flight Segments:

From:	EFD	**To:**	EFD
Start:	09/06/13 16:11 Z	**Finish:**	09/07/13 00:12 Z
Flight Time:	8 hours		
Log Number:	132301	**PI:**	Kent Shiffer
Funding Source:	Hal Maring - NASA - SMD - ESD Radiation Science Program		
Purpose of Flight:	Science		
Comments:	This SEAC4RS ER-2 flight was concurrent with the DC-8, but flight plans were independent. The objective was to sample through a cross section of the North American Monsoon with a Terra satellite underpass and several Aeronet site overflights. All instruments operated nominally. The aircraft is in good shape.		

Flight Hour Summary:

	132301
Flight Hours Approved in SOFRS	166
Total Used	164.6
Total Remaining	1.4

132301 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
08/01/13	13-9048	Check	3	3	163	
08/02/13 - 08/03/13	13-9049	Science	6.5	9.5	156.5	
08/06/13 - 08/07/13	13-9050	Science	8.4	17.9	148.1	
08/08/13	13-9051	Science	7.2	25.1	140.9	
08/12/13	13-9052	Science	7.9	33	133	
08/14/13	13-9053	Science	6	39	127	
08/16/13	13-9054	Science	7.8	46.8	119.2	
08/19/13	13-9055	Science	8.1	54.9	111.1	
08/21/13	13-9056	Science	7.3	62.2	103.8	
08/23/13	13-9057	Science	7.7	69.9	96.1	
08/27/13	13-9058	Science	7.2	77.1	88.9	
08/30/13	13-9059	Science	7.4	84.5	81.5	
09/02/13	13-9060	Science	8.2	92.7	73.3	
09/04/13	13-9061	Science	8.4	101.1	64.9	
09/06/13 - 09/07/13	13-9062	Science	8	109.1	56.9	
09/09/13 - 09/10/13	13-9063	Science	8.1	117.2	48.8	
09/11/13 - 09/12/13	13-9064	Science	7.6	124.8	41.2	
09/13/13	13-9065	Science	8	132.8	33.2	
09/16/13	13-9066	Science	8	140.8	25.2	
09/18/13	13-9067	Science	7.9	148.7	17.3	

09/22/13	13-9068	Science	8.1	156.8	9.2
09/23/13	13-9069	Science	7.8	164.6	1.4

Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.

Related Science Report:

SEAC4RS - ER-2 #809 09/06/13 Science Report

Mission: SEAC4RS
Mission Summary:

Flight Report – SEAC4RS ER-2, September 6, 2013

Prepared by: Richard Ferrare (richard.a.ferrare@nasa.gov)

Purpose of flight: The science goals for this flight were to: 1) to acquire AirMSPI data coincident with MISR on Terra, 2) perform a vertical profile for in situ instruments at the DOE ARM SGP site, 3) perform profiling dips to study the NAM, and 4) overly AERONET sites along the principal planes to evaluate polarimeter aerosol retrievals.

Pilot: Denis Steele

Takeoff: 11:12 CDT

Duration: 8.0 hours

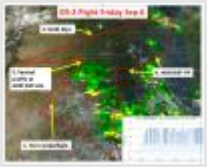
Notes:

ER-2 flew first toward west Texas to setup for the underflight of Terra MISR. The ER-2 flew along the Terra track and was well coordinated with MISR along this track. The conditions were mostly cloud free with only a small cumulus clouds present along this portion of the track. The ER-2 then descended to 41 kft en route to the SGP site for a profile over this site. After reaching the site, the ER-2 then ascended and turned west to set up for the SW-NE leg for the NAM sampling. Along this SW-NE leg, the aircraft performed four more dips. The leg toward the NE was shortened slightly to make sure the total flight length was not more than 8 hours. In addition, the leg over the Bondville AERONET site was also removed for the same purpose. The aircraft then proceeded southwest and flew over AERONET sites at Mingo, MO and Upper Buffalo, AK. Skies were cloudfree over Mingo, but patchy cirrus clouds were present over Upper Buffalo. The aircraft then returned to Ellington.

Aircraft and instruments: All instruments appear to have worked nominally as far as limited in-flight and quick-look analyses showed. INMARSAT worked well during this flight. All instruments are ready for the next flight.

Images:

ER2 Sep 6



Read more

File:
seac4rs_er2_06_Sep.pdf
Submitted by: Richard Ferrare on 09/08/13

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